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Learning Style: On Demand

Technology: Cisco

Difficulty: Intermediate

Course Duration: 40 Hours

Securing Email with Cisco Email Security Appliance (SESA) v3.2 - On Demand



About this course:

This course shows you how to deploy and use Cisco Email Security Appliance to establish protection for your email systems against phishing, business email compromise, and ransomware, and to help streamline email security policy management.

This hands-on course provides you with the knowledge and skills to implement, troubleshoot, and administer Cisco Email Security Appliance, including key capabilities such as advanced malware protection, spam blocking, anti-virus protection, outbreak filtering, encryption, quarantines, and data loss prevention.

This course helps prepare you for the Securing Email with Cisco Email Security Appliance (300-720 SESA) exam, which leads to CCNP Security and the Certified Specialist - Email Content Security certifications.

Course Objective:

After taking this course, you should be able to:

- Describe and administer the Cisco Email Security Appliance (ESA)
- Control sender and recipient domains
- Control spam with Cisco Talos SenderBase and anti-spam
- Use anti-virus and outbreak filters
- Use mail policies
- Use content filters
- Use message filters to enforce email policies
- Prevent data loss
- Perform Lightweight Directory Access Protocol (LDAP) queries
- Authenticate Simple Mail Transfer Protocol (SMTP) sessions
- Authenticate email
- Encrypt email
- Use system quarantines and delivery methods
- Perform centralized management using clusters
- Test and troubleshoot

Audience:

- Security engineers
- Security administrators

- Security architects
- Operations engineers
- Network engineers
- Network administrators
- Network or security technicians
- Network managers
- System designers
- Cisco integrators and partners

Prerequisite:

The knowledge and skills that a student must have before attending this course are:

- TCP/IP services, including Domain Name System (DNS), Secure Shell (SSH), FTP, Simple Network Management Protocol (SNMP), HTTP, and HTTPS
- Experience with IP routing

To fully benefit from this course, you should have one or more of the following basic technical competencies:

- Cisco certification (Cisco CCENT certification or higher)
- Relevant industry certification [International Information System Security Certification Consortium ((ISC)^2), Computing Technology Industry Association (CompTIA) Security+, International Council of Electronic Commerce Consultants (EC-Council), Global Information Assurance Certification (GIAC), ISACA]
- Cisco Networking Academy letter of completion (CCNA 1 and CCNA 2)
- Windows expertise: Microsoft [Microsoft Specialist, Microsoft Certified Solutions Associate (MCSA), Microsoft Certified Systems Engineer (MCSE)], CompTIA (A+, Network+, Server+)

Course Outline:

Describing the Cisco Email Security Appliance

Cisco Email Security Appliance Overview
Technology Use Case
Cisco Email Security Appliance Data Sheet
SMTP Overview
Email Pipeline Overview
Installation Scenarios
Initial Cisco Email Security Appliance Configuration
Centralizing Services on a Cisco Content Security Management Appliance (SMA)
Release Notes for AsyncOS 11.x

Administering the Cisco Email Security Appliance

Distributing Administrative Tasks
System Administration
Managing and Monitoring Using the Command Line Interface (CLI)
Other Tasks in the GUI
Advanced Network Configuration
Using Email Security Monitor
Tracking Messages
Logging

Controlling Sender and Recipient Domains

Public and Private Listeners
Configuring the Gateway to Receive Email
Host Access Table Overview
Recipient Access Table Overview
Configuring Routing and Delivery Features

Controlling Spam with Talos SenderBase and Anti-Spam

SenderBase Overview
Anti-Spam
Managing Graymail
Protecting Against Malicious or Undesirable URLs
File Reputation Filtering and File Analysis
Bounce Verification

Using Anti-Virus and Outbreak Filters

Anti-Virus Scanning Overview
Sophos Anti-Virus Filtering
McAfee Anti-Virus Filtering
Configuring the Appliance to Scan for Viruses
Outbreak Filters
How the Outbreak Filters Feature Works
Managing Outbreak Filters

Using Mail Policies

Email Security Manager Overview
Mail Policies Overview
Handling Incoming and Outgoing Messages Differently
Matching Users to a Mail Policy
Message Splintering
Configuring Mail Policies

Using Content Filters

Content Filters Overview
Content Filter Conditions
Content Filter Actions
Filter Messages Based on Content
Text Resources Overview
Using and Testing the Content Dictionaries Filter Rules
Understanding Text Resources
Text Resource Management
Using Text Resources

Using Message Filters to Enforce Email Policies

Message Filters Overview
Components of a Message Filter
Message Filter Processing
Message Filter Rules
Message Filter Actions
Attachment Scanning
Examples of Attachment Scanning Message Filters
Using the CLI to Manage Message Filters
Message Filter Examples
Configuring Scan Behavior
Preventing Data Loss
Overview of the Data Loss Prevention (DLP) Scanning Process
Setting Up Data Loss Prevention
Policies for Data Loss Prevention
Message Actions
Updating the DLP Engine and Content Matching Classifiers

Using LDAP

Overview of LDAP
Working with LDAP
Using LDAP Queries
Authenticating End-Users of the Spam Quarantine
Configuring External LDAP Authentication for Users
Testing Servers and Queries
Using LDAP for Directory Harvest Attack Prevention
Spam Quarantine Alias Consolidation Queries
Validating Recipients Using an SMTP Server

SMTP Session Authentication

Configuring AsyncOS for SMTP Authentication
Authenticating SMTP Sessions Using Client Certificates
Checking the Validity of a Client Certificate
Authenticating User Using LDAP Directory
Authenticating SMTP Connection Over Transport Layer Security (TLS)
Using a Client Certificate
Establishing a TLS Connection from the Appliance
Updating a List of Revoked Certificates

Email Authentication

Email Authentication Overview
Configuring DomainKeys and DomainKeys Identified MailDKIM) Signing
Verifying Incoming Messages Using DKIM
Overview of Sender Policy FrameworkSPF) and SIDF Verification
Domain-based Message Authentication Reporting and Conformance (DMARC) Verification
Forged Email Detection

Email Encryption

Overview of Cisco Email Encryption
Encrypting Messages
Determining Which Messages to Encrypt
Inserting Encryption Headers into Messages
Encrypting Communication with Other Message Transfer Agents (MTAs)
Working with Certificates
Managing Lists of Certificate Authorities
Enabling TLS on a Listener’s Host Access Table (HAT)
Enabling TLS and Certificate Verification on Delivery
Secure/Multipurpose Internet Mail Extensions (S/MIME) Security Services

Using System Quarantines and Delivery Methods

Describing Quarantines
Spam Quarantine
Setting Up the Centralized Spam Quarantine
Using Safelists and Blocklists to Control Email Delivery Based on Sender
Configuring Spam Management Features for End Users
Managing Messages in the Spam Quarantine
Policy, Virus, and Outbreak Quarantines
Managing Policy, Virus, and Outbreak Quarantines
Working with Messages in Policy, Virus, or Outbreak Quarantines
Delivery Methods

Centralized Management Using Clusters

Overview of Centralized Management Using Clusters

Cluster Organization
Creating and Joining a Cluster
Managing Clusters
Cluster Communication
Loading a Configuration in Clustered Appliances
Best Practices

Testing and Troubleshooting

Debugging Mail Flow Using Test Messages: Trace
Using the Listener to Test the Appliance
Troubleshooting the Network
Troubleshooting the Listener
Troubleshooting Email Delivery
Troubleshooting Performance
Web Interface Appearance and Rendering Issues
Responding to Alerts
Troubleshooting Hardware Issues
Working with Technical Support

References

Model Specifications for Large Enterprises
Model Specifications for Midsize Enterprises and Small-to-Midsize Enterprises or Branch Offices
Cisco Email Security Appliance Model Specifications for Virtual Appliances
Packages and Licenses

Credly Badge:



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